TPS™

Quick Reference Guide

5100-198-000 Rev-B

⚠ WARNING:

Before using any TPS component, read and understand its instructions and review the important User/Patient Safety information provided in the TPS Console instruction booklet.

stryker®
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IMPORTANT SAFETY INSTRUCTIONS

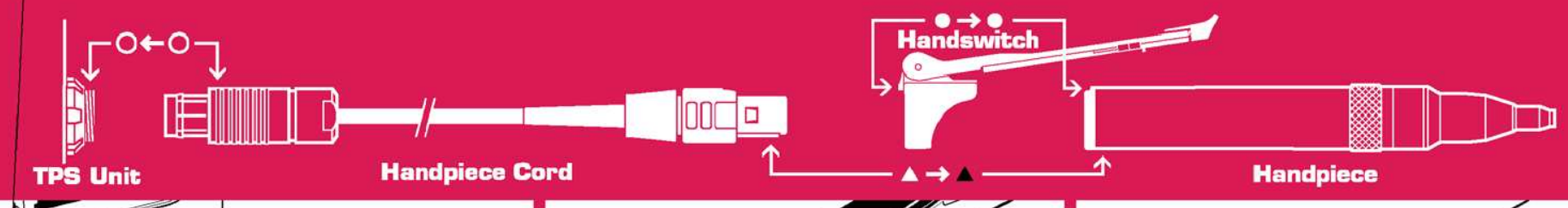
WARNING: The personal safety of the patient and/or user may be involved. Disregarding this information could result in injury to the patient and/or O.R. staff. Read and understand the following warnings.

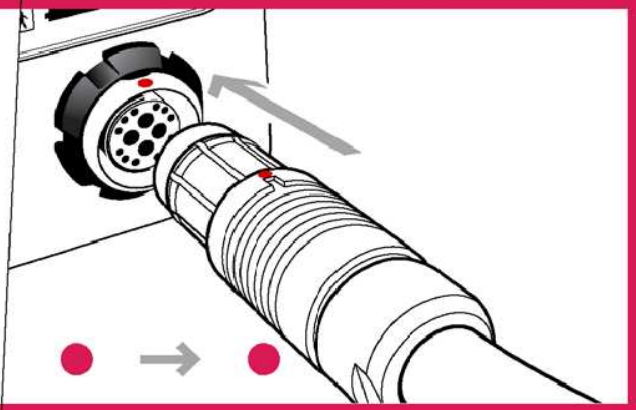
SYSTEM SAFETY

- DO NOT modify ground of power cord.
- Equipment not suitable for use in the presence of flammable anesthetic mixture with air or with oxygen or nitrous oxide.
- The Stryker Total Performance System is designed to be used by persons familiar with surgical procedures. Misuse may cause injury to both patient and system components. Prior to each use, system components should be inspected for damage. DO NOT use if damage is apparent.
- Use only Stryker TPS components and accessories unless otherwise specified.
- Clean and sterilize handpieces and accessories before first and every use.
- Use of safety glasses by user and O.R. staff is recommended to prevent eye injury.

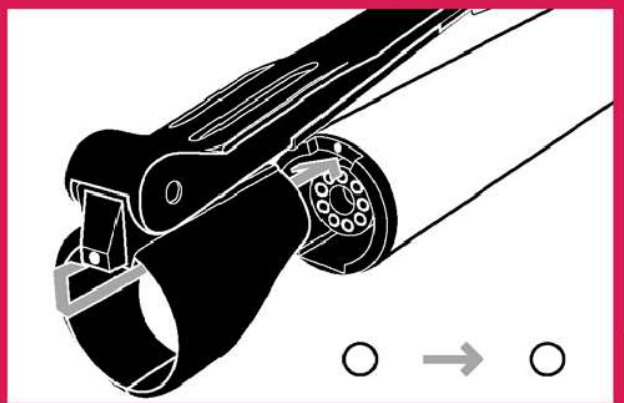
HANDPIECE SAFETY

- Read this booklet and the information supplied with TPS components. Component instructions provide specific safety information. Refer to the instructions supplied with Stryker Endoscopy handpieces when using those handpieces in conjunction with the TPS console.
- Activate and deactivate handpieces from the same trigger device. For example, if a handpiece is activated by the footswitch it must be deactivated from the footswitch. *Exception:* In the 1T mode, handpiece can be deactivated from any device.
- DO NOT attempt to change a saw, bur, or drill while handpiece is running.
- Stryker handpieces which fail due to long life and/or nose bearing failure may allow foreign matter to migrate or emit from the distal tip of the handpiece. Fluid may leak into surgical site, such that measures may be required, per the physician's discretion, to protect the patient from infection.
- Never rest handpiece on the patient. Improper handling of a handpiece could result in damage or burns to tissue.
- DO NOT place a footswitch-controlled TPS handpiece near or on a magnetic pad or tray. The magnetic field can simulate a Universal Handswitch and may cause the handpiece to run inadvertently.
- DO NOT modify any bur to fit the handpieces. Use only Stryker approved burs. Other burs may not fit properly in the handpiece. During use they may come out of the handpiece or bend which would result in damage to tissue in the surgical site due to loss of control of the bur.
- Burs and blades are intended for single use only.
- Excessive pressure, such as bending or prying, may cause accessory to bend or break and cause tissue damage to patient and/or O.R. staff.
- Heavy sideloads and/or long operating periods occasionally will cause overheating of the distal tip and the body of handpieces to the point where the handpiece is uncomfortable to hold or causes injury to the patient.
- If the recommended duty cycle is not followed, the handpiece may overheat and cause injury to patient and/or operating room staff. See the *Duty Cycle* information supplied with each handpiece.
- Excessive pressure, such as bending and/or prying with a bur, may cause the bur to bend or fracture. If operated at a high speed, it is possible that the bur will bend yet further. This could result in damage to tissue in the surgical site, handpiece vibration that causes lost tactile control, or breakage of the bur such that the broken piece would be ejected at a high velocity endangering the patient and/or O.R. staff. It is therefore recommended that safety glasses be used.
- Excessive pressure, such as bending and prying with blade, may cause the blade to bend or fracture and could result in damage to tissue in the surgical site and/or loss of tactile control.
- If using a device with a safety lock, such as a MicroDriver or Universal Handswitch, always place that device in the SAFE position when not in use. IMPORTANT: Be aware that the TPS footswitch will override the Universal Handswitch SAFE setting.
- DO NOT use a bur or blade without the appropriate guard or attachment as user and/or patient injury may result.
- Please note the handpiece starts with rapid acceleration when the footswitch or handswitch is activated.
- During initial use of your TPS handpieces, monitor the heat response in relation to the type of surgical procedure being performed. Frequently check the distal tip and body until you are familiar with its temperature rise characteristics. Failure to pay close attention to handpiece temperature may cause burn injury to patient.

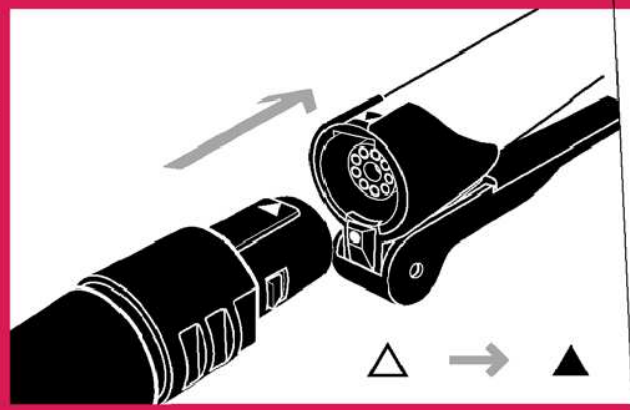




Plug the console end of the Handpiece cord into the TPS1 or TPS2 outlet on the console. Align the red dot on the plug with the red dot on the outlet. Gently push connectors together. Make sure it is completely inserted. To remove, grab the ribbed collar and firmly pull straight out.



To insert the Handswitch align the white circle on the back of the handswitch with the white circle on the back of the handpiece. Push the handswitch straight on. Make sure it is completely inserted. Notch should be fully engaged, flush with the back of the handpiece, and covering the white circle on the handpiece.



Plug the handpiece end of the cord into the handpiece. Align the white triangle on the plug with the black triangle on the back of the handpiece. Insert the plug straight into the handpiece. Make sure it is completely inserted. To remove, grab the ribbed collar and pull straight out.

(Universal Handswitch)

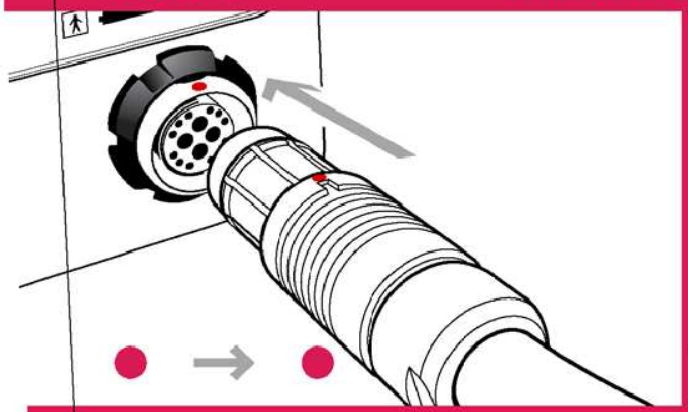
CAUTION: All TPS Cords have push/pull connectors. Do not thread or twist for insertion or removal.

Assembly

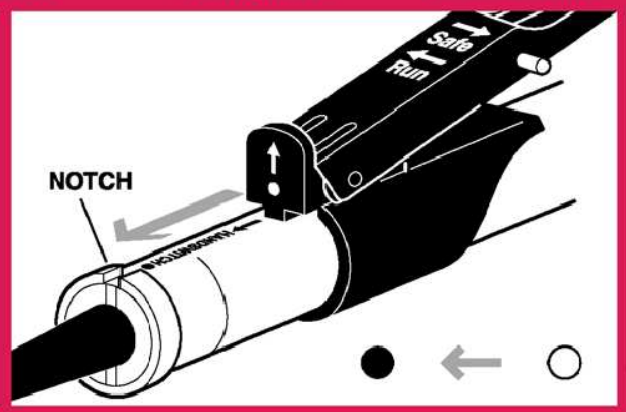
Assembly

(Saber Drill Handswitch)

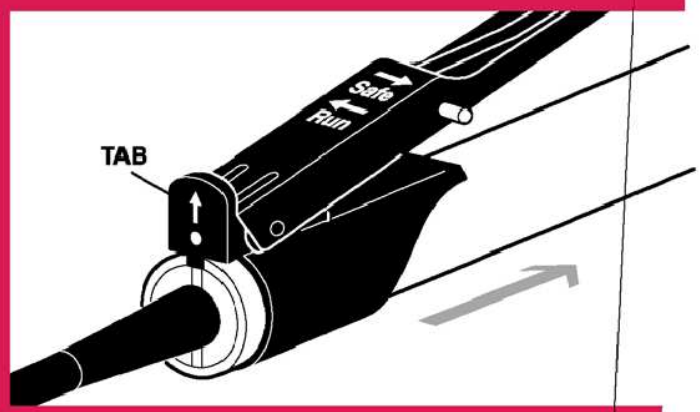
CAUTION: All TPS Cords have push/pull connectors. Do not thread or twist for insertion or removal.



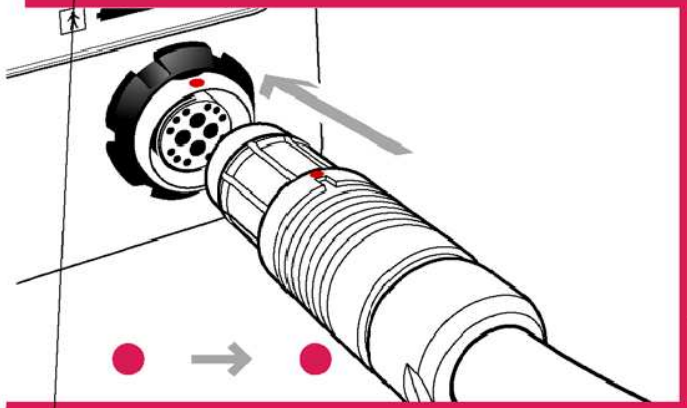
Plug the console end of the Handpiece cord into the TPS1 or TPS2 outlet on the console. Align the red dot on the plug with the red dot on the outlet. Gently push connectors together. Make sure it is completely inserted. To remove, grab the ribbed collar and firmly pull straight out.



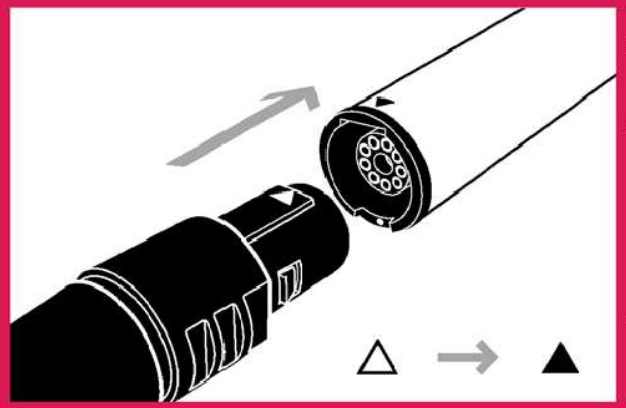
Place desired attachment on handpiece. Place handswitch in SAFE position by pressing safety button. Retract finger rest completely. Slide handswitch over end of attachment aligning the dot on the handswitch with dot on handpiece. Slide handswitch down the length of handpiece until tab locks into notch on hanpiece.



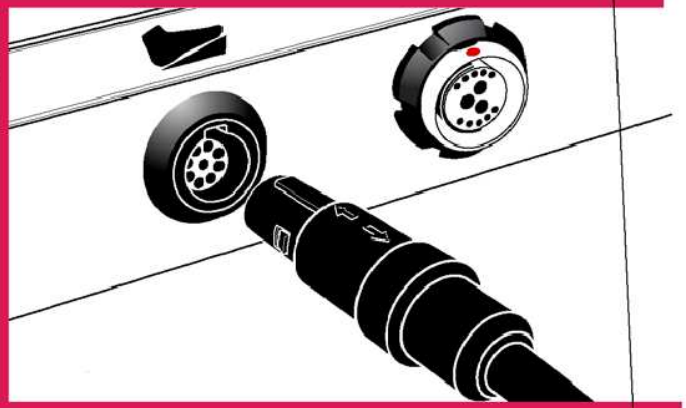
To remove, place handswitch in SAFE position. Remove cutting accesoory from attachment. Hold handpiece near front of drill while pressing the handswitch TAB with your thumb. The TAB will snap out of the notch. Continue pressing the TAB to slide the handswitch off the end of the handpiece and attachment.



Plug the console end of the Handpiece cord into the TPS1 or TPS2 outlet on the console. Align the red dot on the plug with the red dot on the outlet. Gently push connectors together. Make sure it is completely inserted. To remove, grab the ribbed collar and firmly pull straight out.



Plug the handpiece end of the cord into the handpiece. Align the white triangle on the plug with the black triangle on the back of the handpiece. Insert the plug straight into the handpiece. Make sure it is completely inserted. To remove, grab the ribbed collar and pull straight out.



Plug the footswitch cable into the console port marked FOOTSWITCH. Align orientation marks and gently push connectors together. To remove, grab the collar marked with arrows and pull straight out.

CAUTION: All TPS Cords have push/pull connectors. Do not thread or twist for insertion or removal.

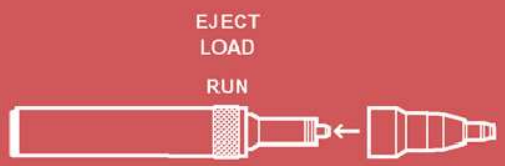
(Footswitch)

Assembly

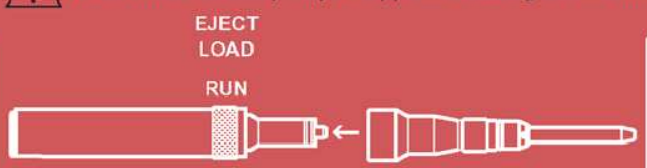
Assembly

(Attachment)

WARNING: Use only Stryker approved cutting accessories.

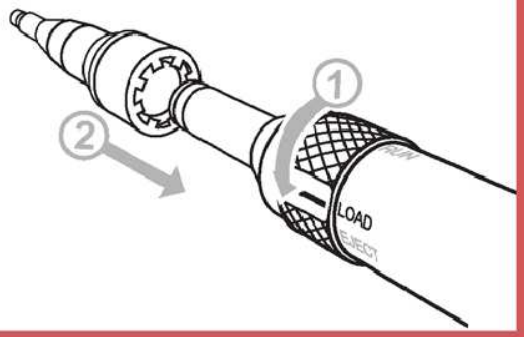


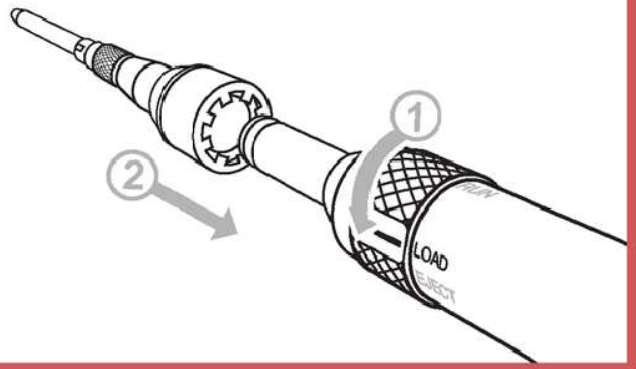
Universal/U2 Drill with Attachment

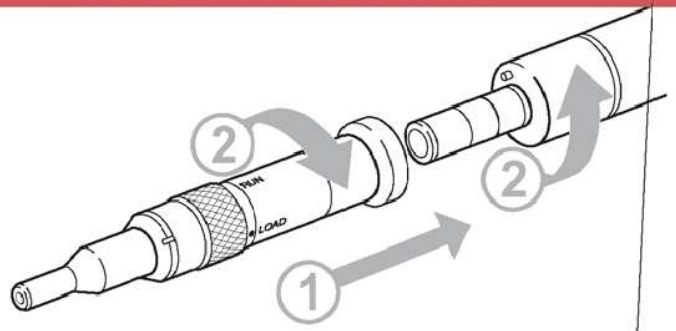


Universal/U2 Drill with Elite Attachment

Micro Drill with Attachment





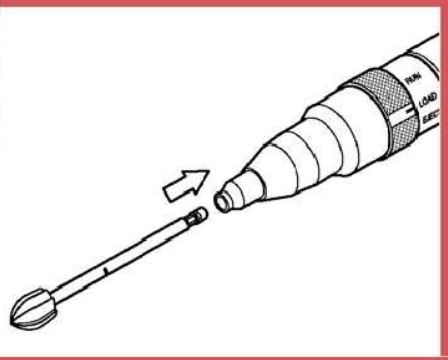


To insert an attachment on the Universal/U2 Drill first, turn the drill to the "LOAD" position. Second, push the Universal/U2 Drill Attachment straight on the front of the Universal/U2 Drill and twist slightly until it locks into position.

To insert an attachment on the Micro Drill, push the Micro Drill Attachment straight on the front of the Micro Drill and twist slightly to lock into position.

Universal/U2 Drill Straight Attachment Bur Assembly

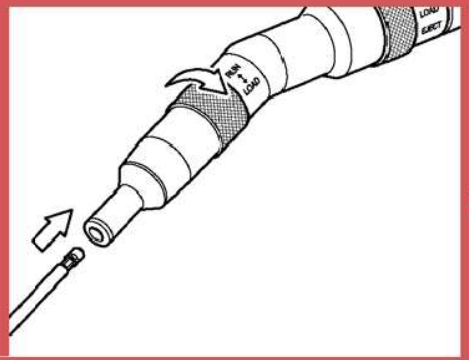
1. Make certain the collar on the handpiece is turned to the LOAD position.



2. Insert the bur with a twisting motion. The bur is properly installed when the safety line on the bur shaft disappears inside the handpiece.
3. Rotate collar to the RUN position. Give the bur a gentle tug to ensure it is secure.

Universal/U2 Drill Angled Attachment Bur Assembly

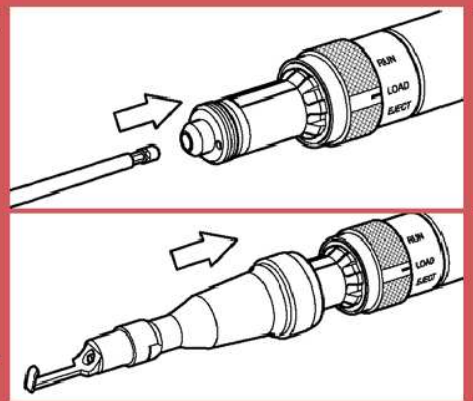
1. Rotate the attachment's locking ring in the LOAD direction until it snaps into place.



2. Insert a bur until it bottoms in the attachment. The bur is properly installed when the safety line on the bur shaft disappears inside the handpiece.
3. Rotate the attachment's locking ring in the RUN direction until it snaps into place. Give the bur a gentle tug to ensure it is secure.

Universal/U2 Drill Dura Guard Bur Assembly D-12, D-16 and D-25

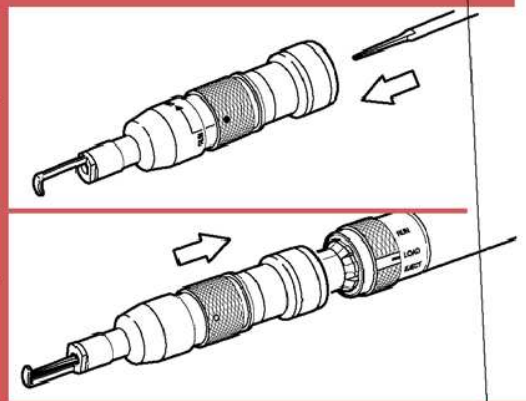
1. Turn collar on drill in the LOAD position.
2. Load router into distal end of drill.



2. Load router into distal end of drill.
3. Place the Dura Guard over the top of the router and push down onto the distal end of the drill until fully seated.
4. Turn collar on handpiece to RUN position.

Universal/U2 Drill Dura Guard Bur Assembly D-47, D-48 and D-49

1. Place Dura Guard in the LOAD/RUN position.
2. Push 5120-71-47, 48 or 49 router into the back of the Dura Guard. It will "click" as it snaps into position.



3. Make sure handpiece collar is in LOAD position. Place Dura Guard with router loaded over distal end of the handpiece. Push firmly and twist until it is seated on the handpiece.
4. Turn collar on handpiece to RUN position.

WARNING: Before using any TPS component, read and understand the instructions provided with the accessories.

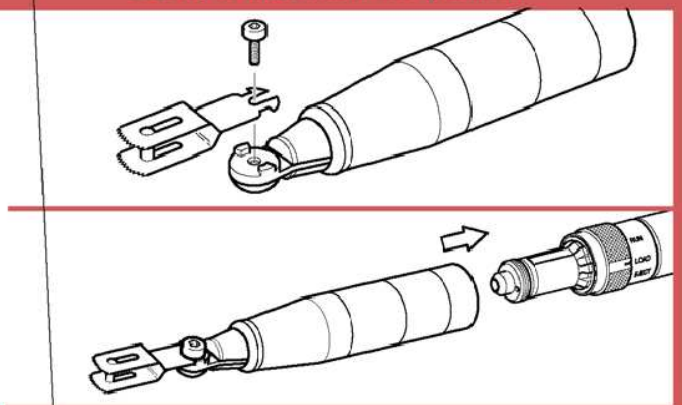
Assembly

{ Cutting Accessories }

WARNING: Before using any TPS component, read and understand the instructions provided with the accessories.

Universal/U2 Drill with Caspar Attachment Blade Assembly

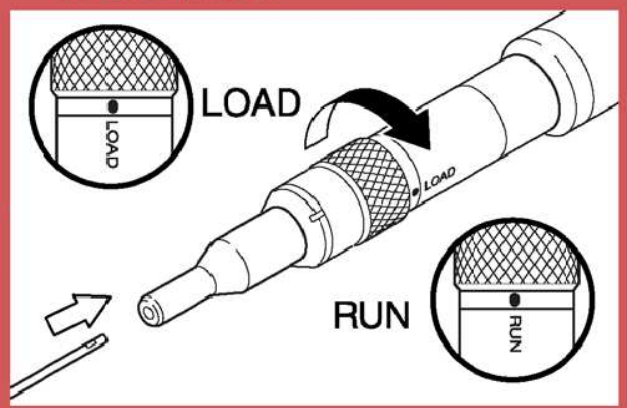
1. Align slot on blade with tabs on blade mount.
2. Use Allen Wrench to tighten Blade Mount Screw, to lock blade into position.



3. Confirm blade is secure by gentle pushing and pulling back and forth.
4. Rotate handpiece collar to LOAD position.
5. Place Sagittal Attachment onto handpiece, push firmly and twist to seat. Tug to ensure it is secure.
6. Rotate handpiece collar to the RUN position.

MicroDrill Straight/Angled Attachment Bur Assembly

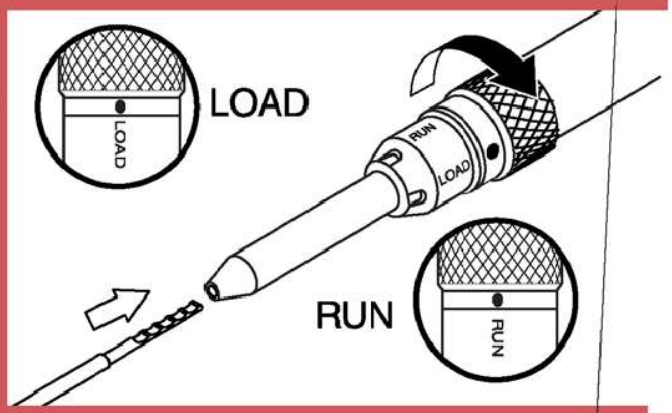
1. To insert bur, rotate the collar on the MicroDrill Attachment counterclockwise to the LOAD position.



2. Insert the bur with a twisting motion.
3. Rotate collar clockwise to the RUN position. Give the bur a gentle tug to ensure it is secure.

Saber Drill Bur Assembly

1. Rotate the attachment's locking collar to the LOAD postition.

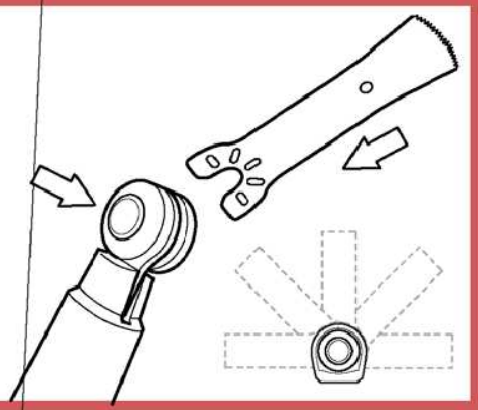


2. Insert a bur with a twisting motion to the desired exposure. The bur is properly positioned when you feel it "click" into place. Rotate the attachment's locking collar to the RUN position. Tug while twisting the bur to make sure it is secure.

WARNING: Before using any TPS component, read and understand the instructions provided with the accessories.

Micro Sagittal Saw Blade Assembly

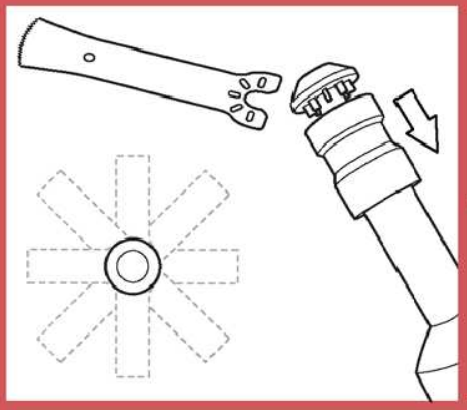
1. Depress the button to expose the fins.



2. Insert the blade in the desired position so the blade slots fit over the fins.
3. Release button to secure blade. Slightly rotate the blade and button to help seat blade in the handpiece.

Micro Oscillating Saw Blade Assembly

1. Pull back the collar to expose the fins on the distal end of the saw.

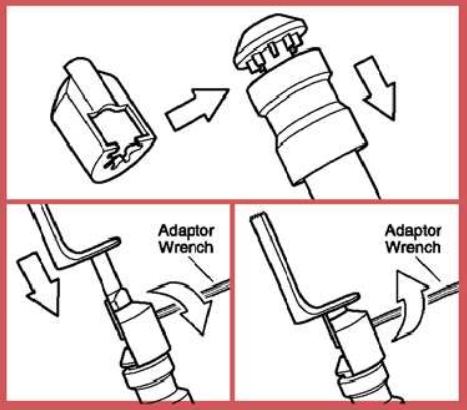


2. Place the blade in the blade mount in the desired orientation, aligning the slots on the blade with the fin on the blade mount.
3. Release the collar to lock the blade in position. Slightly rotate the blade and collar to help seat the blade in the handpiece.

Micro Oscillating Saw Intra-oral and Crescentic Blade Assembly

Note: Use Adaptor REF 2296-3-400 to accept Intra-oral and Crescentic Blades.

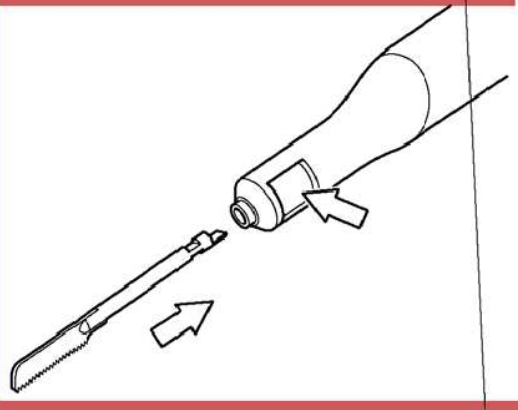
1. Pull back the collar to expose the fins on the distal end of the saw.



2. Insert the Adaptor in the desired direction so slots fit over fins.
3. Release collar to secure Adaptor.
4. Loosen screw on Adaptor with Adaptor Wrench and insert blade.
5. Tighten the screw firmly. Gently pushing the blade toward the handpiece to ensure it is secure. If secure, collar will not move.

Micro Reciprocating Saw Blade Assembly

1. Fully depress button on handpiece near distal tip.



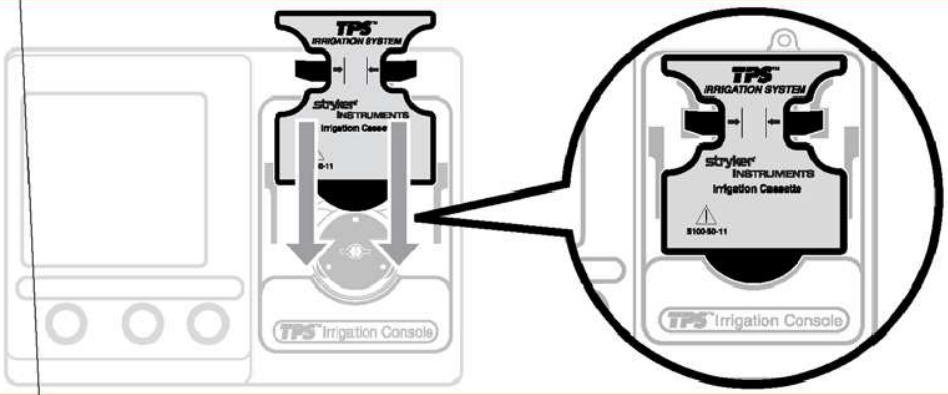
2. Insert blade with a twisting motion. An audible click signifies that the blade is locked into position. The safety line will also disappear into the handpiece.
3. Let button snap back to the original position to engage blade. Give the blade a gentle tug to ensure it is secure.

Assembly

(Irrigation)

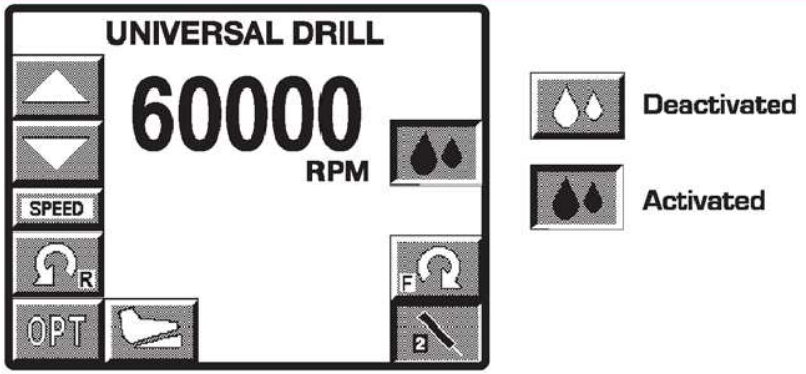
Console with Irrigation System

Insure Irrigation Cassette is fully inserted over the roller. Push down firmly. ***Two audible clicks*** will indicate that both latches are fully engaged.



Irrigation Button

Insure Irrigation icon is activated. The water drops on the Irrigations icon will turn black when activated and turn white when deactivated.



WARNING:

To avoid hazard, keep fingers away from roller mechanism. Always reinstall the pump cover when the irrigation cassette is removed.

CAUTION:

Activating irrigation while both valves are closed may damage tubing.

Handpiece Screen

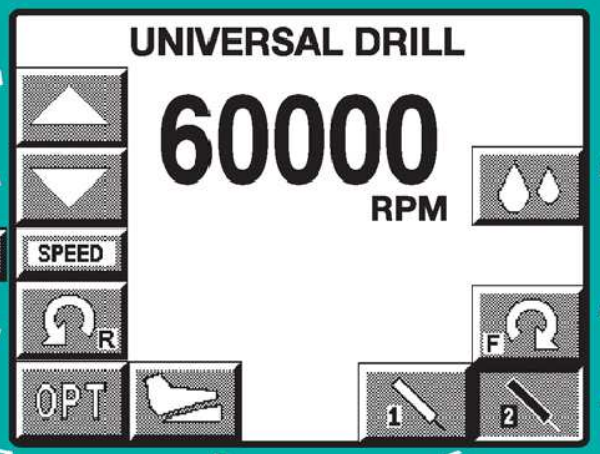
INCREASE: Used to adjust speed and irrigation levels up.

DECREASE: Used to adjust speed and irrigation levels down.

SPEED/WATER: The speed icon functions as a toggle switch for speed and water settings.

REVERSE (counterclockwise)

OPTIONS: Gives access to handpiece adjustments, systems information, console controls and user preference.
(See next page.)



FOOTSWITCH INDICATOR: Appears when a footswitch is connected to the console. Also gives access to footswitch adjustments screen.
(See footswitch option page.)

IRRIGATION: Activates or deactivates handpiece irrigation.

Deactivated Activated

FORWARD (clockwise)

The handpiece graphic highlights and the icon appears depressed when selected.

The handpiece graphic appears when a handpiece is attached to the corresponding cord.

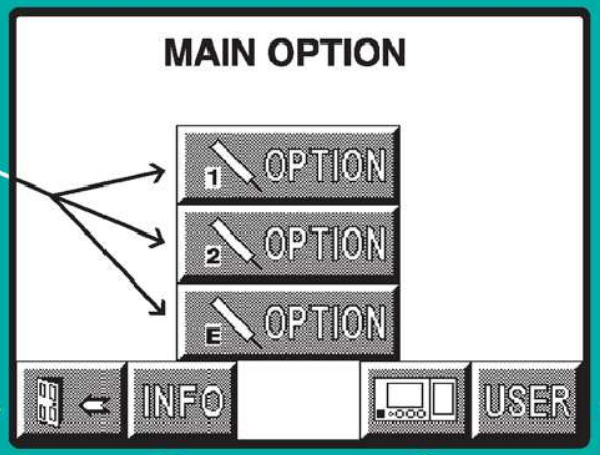
Screen options

Screen options

Main Option Screen

HANDPIECE OPTION: Options 1,2 and E icons appear only when handpieces are plugged into the corresponding console ports. A handpiece must be plugged in to program its settings.

To go to the **HANDPIECE ADJUSTMENT** screen, touch the option button that corresponds to the desired handpiece.
(See next page.)



EXIT: Return to Handpiece screen.

USER: Allows access to the surgeon preference screen.

Information: Displays system information screen.

CONSOLE: Gives access to console adjustment screen.

Handpiece Adjustment Screen

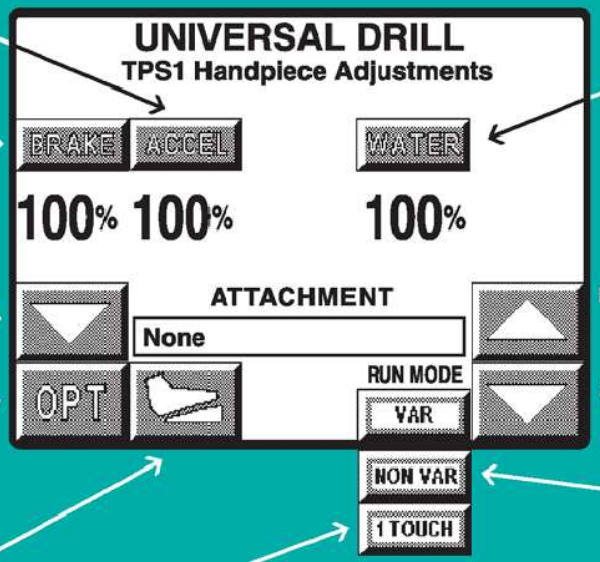
ACCELERATION: At 100%, the handpiece speed accelerates quickly. Acceleration slows as the setting approaches zero.

BRAKE: At 100%, the handpiece stops abruptly. Deceleration slows as the setting nears zero.

ATTACHMENT: Use to scroll through the list of attachments. Display the attachment that is assembled to the handpiece by stopping on it.

OPTIONS: Gives access to handpiece adjustments, systems information, console controls and user preference.

FOOTSWITCH INDICATOR: Appears when a footswitch is connected to the console. Also gives access to footswitch adjustments screen. ***(See next page.)***



ONE TOUCH: Toggle the handpiece on and off with a single touch of a trigger device. The trigger device can be the footswitch, handswitch or handpiece trigger buttons.

WATER: At 100%, irrigation volume is greatest. Volume decreases as the setting approaches zero.

INCREASE: Used to adjust brake, acceleration and water levels up.

DECREASE: Used to adjust brake, acceleration and water levels down.

VARIABLE: Handpiece speed responds to the degree of pressure applied to the footswitch or handswitch.

NONVARIABLE: Handpiece speed runs at the maximum setting only. Varying pressure on the footswitch or handswitch does not vary the handpiece speed.

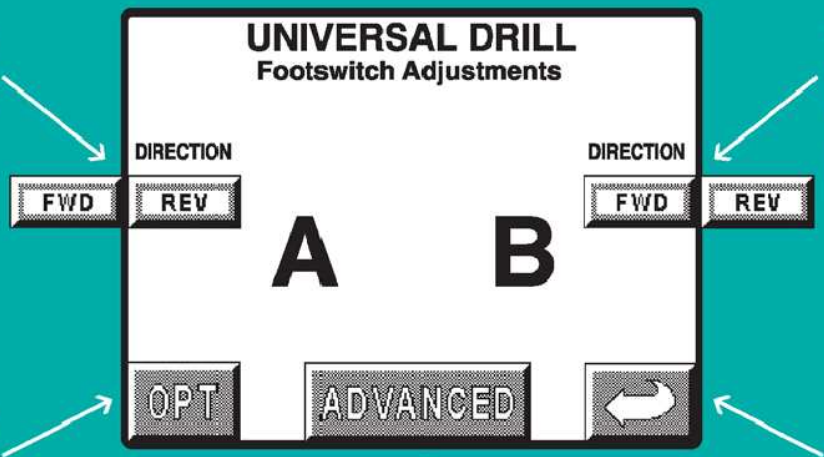
Screen options

Screen options

Footswitch Adjustment Screen

Toggles the Handpiece direction when the corresponding footswitch is depressed.

Reverse = Counterclockwise
Forward = Clockwise



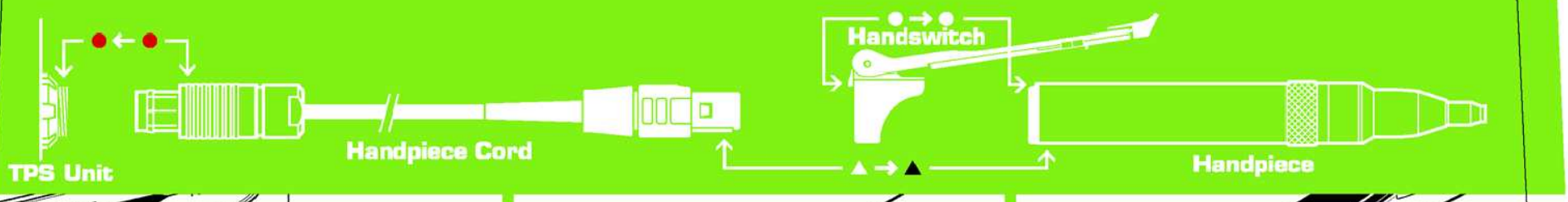
Toggles the Handpiece direction when the corresponding footswitch is depressed.

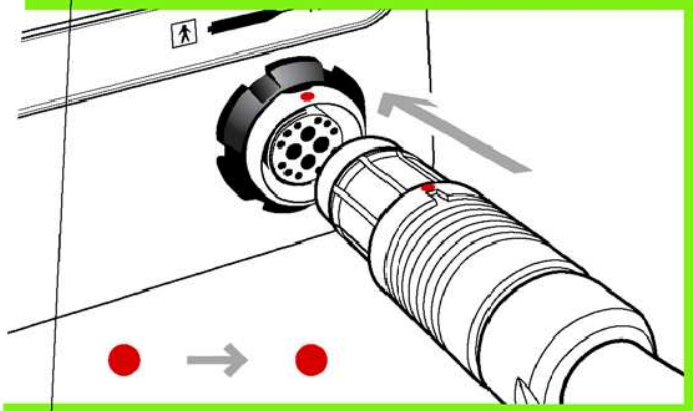
Reverse = Counterclockwise
Forward = Clockwise

OPTIONS: Gives access to handpiece adjustments, systems information, console controls and user preference.

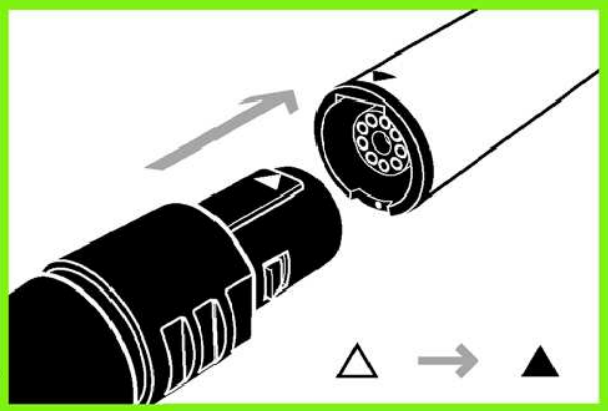
RETURN: Return to the previous screen.

ADVANCED:
Use to access the Footswitch Button Mapping screen. It will allow you to reprogram all the footswitch pedals, and set variable or nonvariable mode.





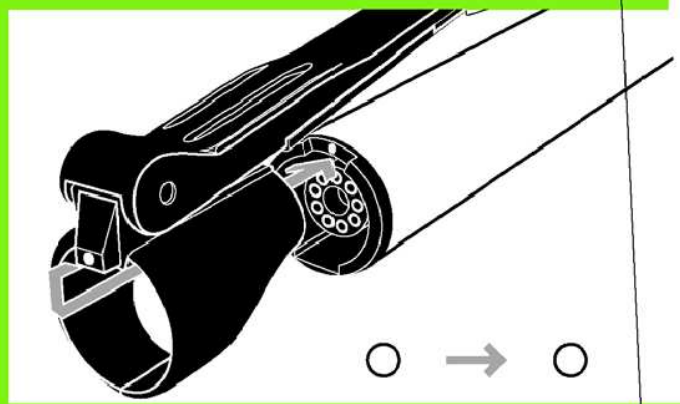
Check the handpiece cord at the console. Make sure the red dots are properly aligned and the plug is completely inserted into the console.



Check the handpiece cord at the handpiece. Make sure the plug is completely inserted into the handpiece.

CAUTION:

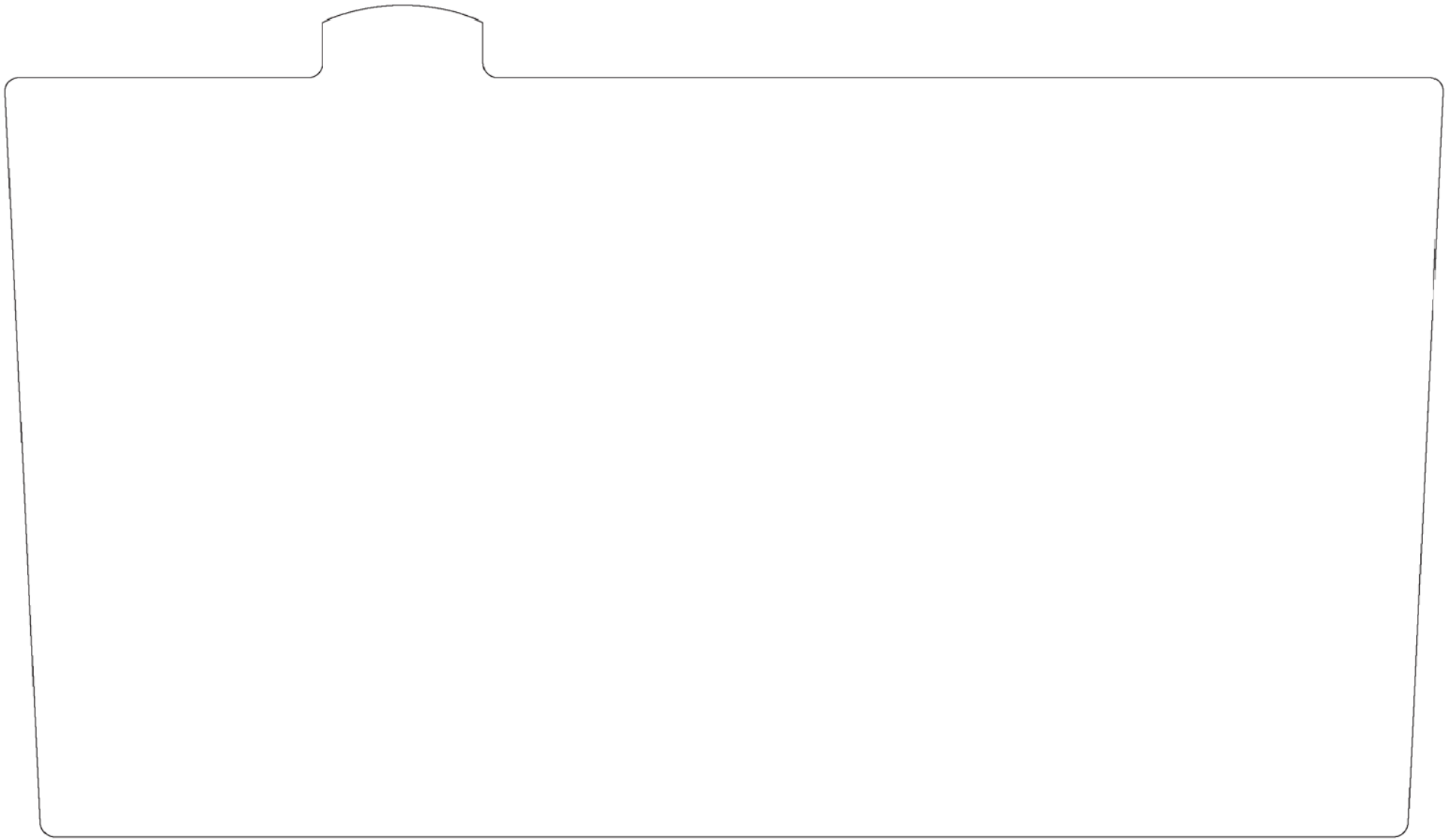
All TPS Cords have push/pull connectors. Do not thread or twist for insertion or removal.

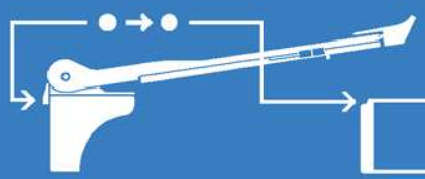


If using the Universal Handswitch check that the white dots are properly aligned and the handswitch is completely inserted. Notch should be fully engaged, flush with the back of the handpiece, and covering the white circle on the handpiece.

If Handpiece is still not detected please contact your Stryker representative.

No Handpiece Detected

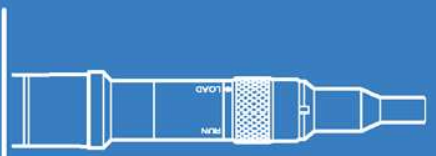




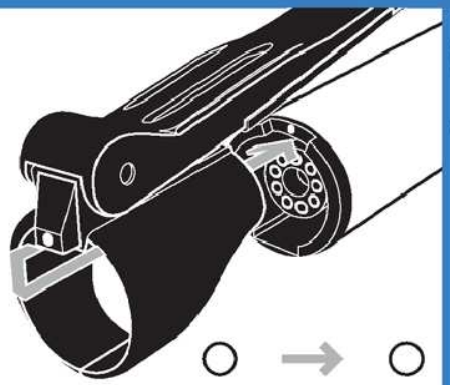
Handswitch

Universal/U2 Drill

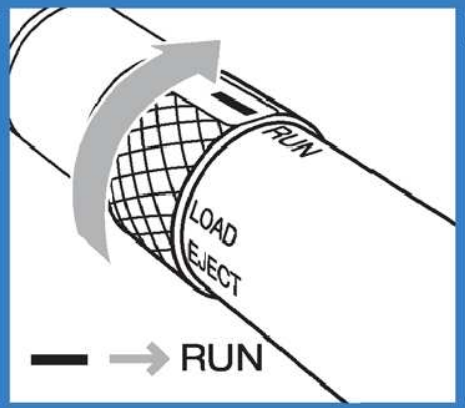
Angled Attachment



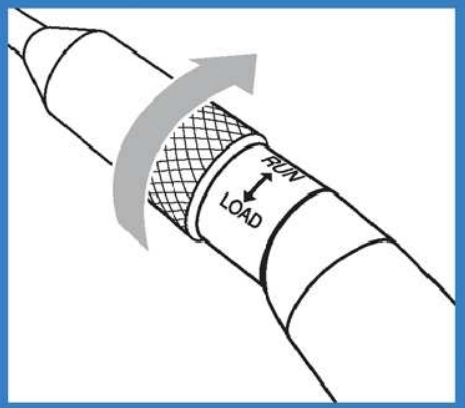
Micro Drill with Attachment



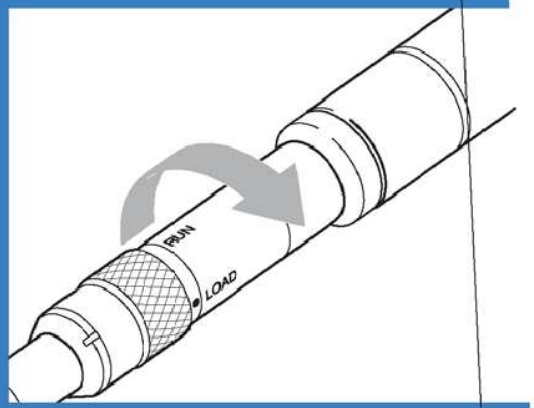
If the Universal Handswitch is being utilized check that the white dots are properly aligned and the handswitch is completely inserted. Also, insure that the Safety switch is in the RUN position.



On the Universal/U2 Drill handpiece, make sure it is completely turned in the "RUN" position.



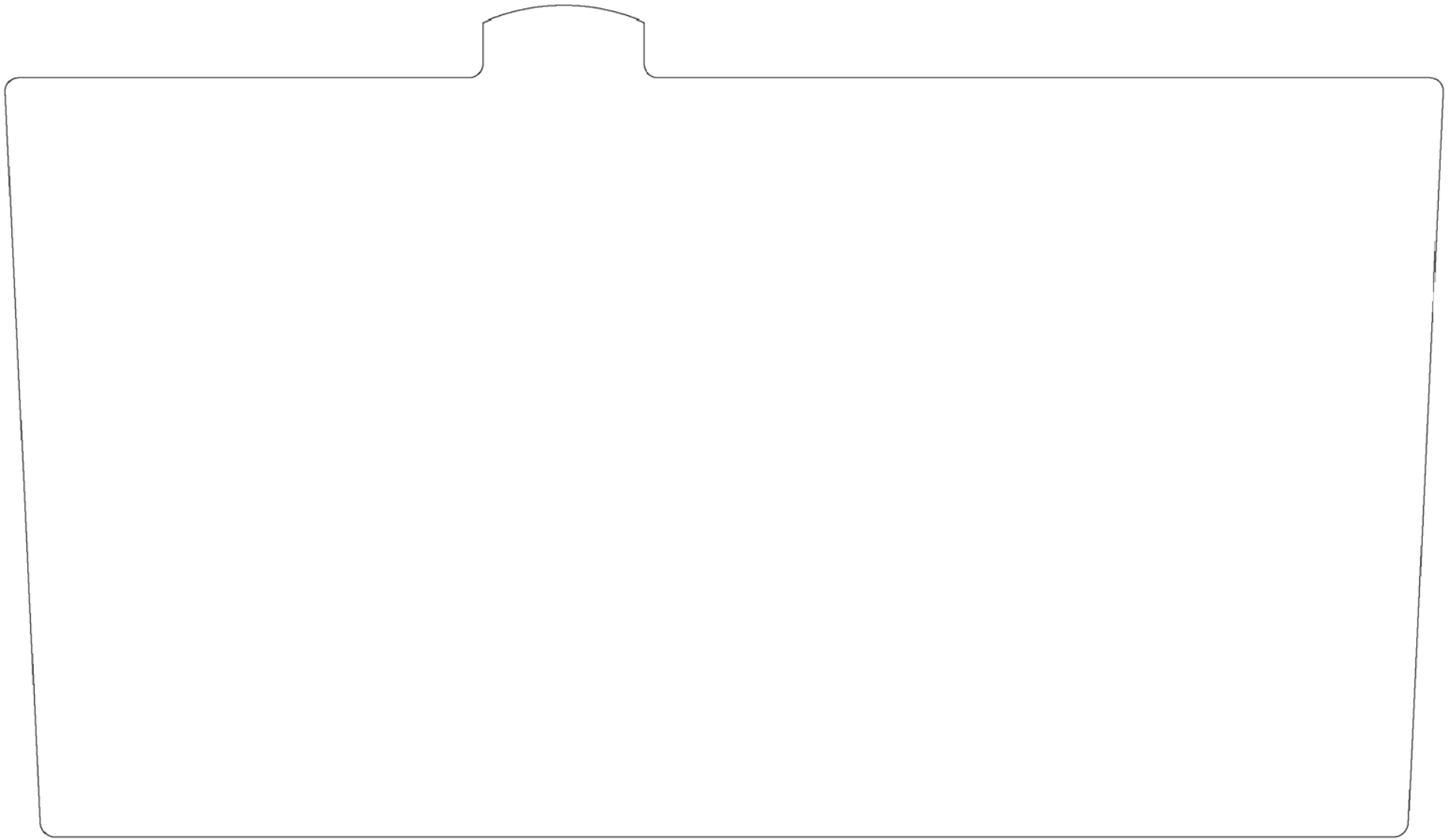
If an Angled Attachment is being utilized with the Universal/U2 Drill, make sure that it is completely turned to the "RUN" position.

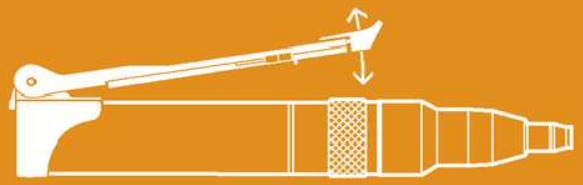


When using the Micro Drill, make sure the Attachment is secure. Press the Attachment on the handpiece with a twisting motion until it "snaps" into position.

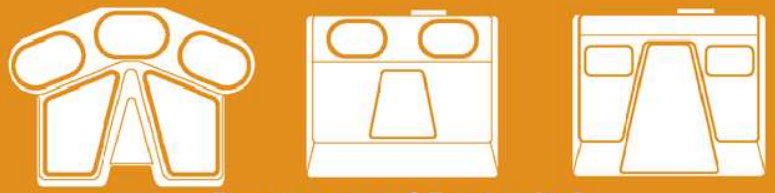
If Handpiece is still inoperable please contact your Stryker representative.

Detected but inoperable

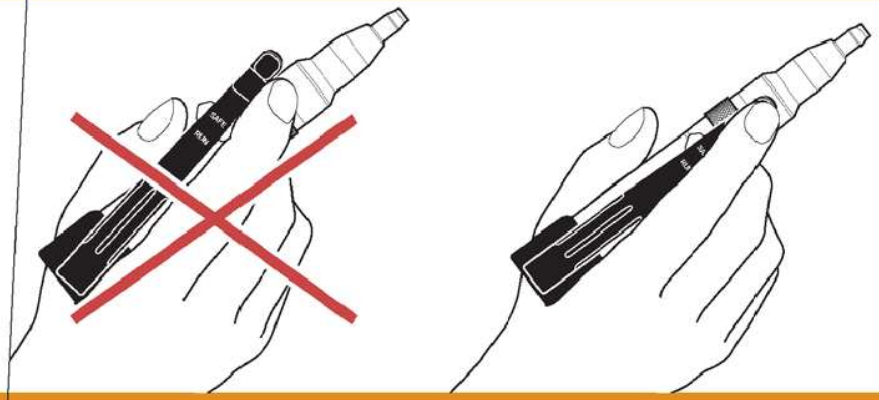




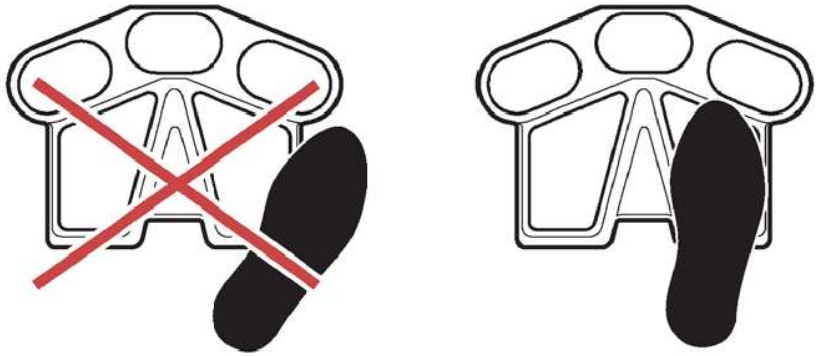
Proper use of Handswitch



Proper use of Footswitch



If the Handswitch is pressed at an angle its full range of speed can not be utilized. Make sure your finger is centered over the end of the Handswitch, so the pressure given to the Handswitch is straight up and down. The straight up and down pressure will give you full range of speed.



Make sure your foot is centered over the pedal on the Footswitch, so the pressure given to the Footswitch is straight up and down. The straight up and down pressure will give you full range of speed.

For further speed concerns consult manual or contact your Stryker representative.

Low Power

Messages	Message If you select OK to this question:
Delete all the surgeon's procedures?	The surgeon ID and all procedures will be deleted.
Change the name of all the surgeon's procedures?	Procedures listed under the surgeon will be moved under the current surgeon's name.

Note: *Record all Error # prior to contacting Stryker representative.*

Messages	Action to Take:
Identical record found.	
Maximum number of records exceeded.	Please delete inactive records.
Initializing console hardware.	Please wait.
Handpiece has reached recommended service interval.	Please return for service at earliest convenience.
Handpiece does not support the selected preference.	Default handpiece setting will be used.
Handpiece temperature has exceeded its nominal operating range and may cause burning.	Allow Handpiece to cool then press OK to continue. If warning persists contact Stryker representative.
Handpiece temperature has exceeded its operating range.	Allow to cool before restarting.
Procedure name unspecified.	

Ensure handpiece speed does not exceed specified attachment limitations. Failure to do so may result in user and/or patient injury.

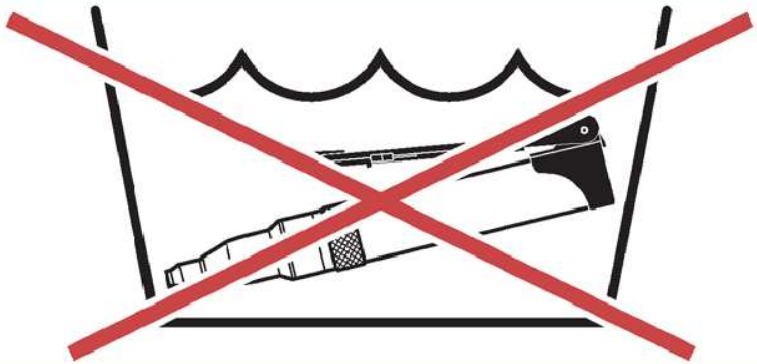
Error Messages

		Action to Take:
Error 001.	**Console hardware fault detected.**	Return console to Stryker for repair.
Error 002.	**Console hardware fault detected. Contact your Stryker service representative.**	Turn unit off and on again. If problem persists, return console to Stryker for repair.
Error 003.	**Console hardware fault detected. Contact your Stryker service representative.**	Turn console off and on again. If problem persists, return console to Stryker for repair.
Error 004.	**Footswitch fault detected, right pedal will be disabled. Contact your Stryker service representative.**	Unplug Footswitch from console and plug in again. If problem persists, return footswitch to Stryker for repair.
Error 005.	**Footswitch fault detected, left pedal will be disabled. Contact your Stryker service representative.**	Unplug Footswitch from console and plug in again. If problem persists return footswitch to Stryker for repair.
Error 006.	**Footswitch unreadable. Contact your Stryker service representative.**	Unplug Footswitch from console and plug in again. If problem persists, return footswitch to Stryker for repair.
Error 007.	**Handpiece fault detected, handpiece triggers will be disabled. Contact your Stryker service representative.**	Unplug cord from handpiece and plug in again. If problem persists, return handpiece to Stryker for repair.
Error 008.	**Handpiece unreadable. Contact your Stryker service representative.**	Unplug handpiece from console and plug in again. If problem persists, return handpiece Stryker for repair.
Error 009.	**Handpiece requires additional console hardware. Contact your Stryker service representative.**	Call your Stryker Instruments sales representative.
Error 010.	**Handpiece requires additional console hardware. Contact your Stryker service representative.**	Call your Stryker Instruments sales representative.
Error 011.	**Handpiece requires additional console hardware. Contact your Stryker service representative.**	Call your Stryker Instruments sales representative.

Note: *Record all Error # prior to contacting Stryker representative.*

The Total Performance System is not field repairable. In case of operating difficulties, Stryker products must be returned for maintenance or repair.

Sterilization



DO NOT IMMERSE

CAUTION:

DO NOT immerse any TPS components or run through a washer / sterilizer.

DO NOT sterilize console or footswitch.

Flash: 10 min

Dry: 3-5 min

WARNING:

Separate attachments, cutting accessories, handswitch and cords from handpieces prior to sterilization.

Use only the sterilization methods recommended. Other methods can damage handpieces and cause instruments to overheat resulting in injury to patient and / or O.R. staff.

Failure to follow recommended dry times can cause moisture to accumulate inside the handpieces that could result in overheating and may cause burn injury to patient and / or user.

See next page for more detailed sterilization options.

Sterilization Recommendations

ETO:

- 100% ETO
- 120-135˚F (49-57˚C)
- Double cloth (muslin) wrapped
- 1 hour minimum exposure time, 8 hour minimum aeration time

250˚F Gravity:

- Gravity displacement sterilizer
- 250-254˚F (121-123˚C)
- Double cloth (muslin) wrapped
- 45 minute minimum exposure time
- 8 minute minimum drying time

Hi Vac:

- Pre-vacuum sterilizer
- 270-272˚F (132-134˚C)
- Wrapped or unwrapped
- 4 minute minimum exposure time
- 8 minute minimum dry time

270˚F Gravity:

[wrapped]

- Gravity displacement sterilizer
- 270-272˚F (132-134˚C)
- Single or Double cloth wrap in an instrument tray
- 35 minute minimum exposure time
- 8 minute dry time

270˚F Gravity:

[unwrapped]

- Gravity displacement sterilizer
- 270-272˚F (132-134˚C)
- Unwrapped "Flash"
- 10 minute minimum exposure time
- 3-5 minute dry time

⚠ WARNINGS:

Separate attachments, cutting accessories and cords from handpieces prior to sterilization.

Use only the sterilization methods recommended. Other methods can damage handpieces and cause instruments to overheat resulting in injury to patient and/or O.R. staff.

Failure to follow recommended dry times can cause moisture to accumulate inside the handpieces that could result in overheating and may cause burn injury to patient and/or user.

⚠ CAUTION:

Remove the Universal Handswitch from the handpiece prior to sterilization. If it remains attached, its band will stretch and no longer fasten to the handpieces.

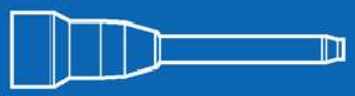
DO NOT sterilize console or footswitch.

NOTE: To ensure comfortable operating temperature, allow handpiece to cool to room temperature after sterilization.

Maintenance/
Sterilization

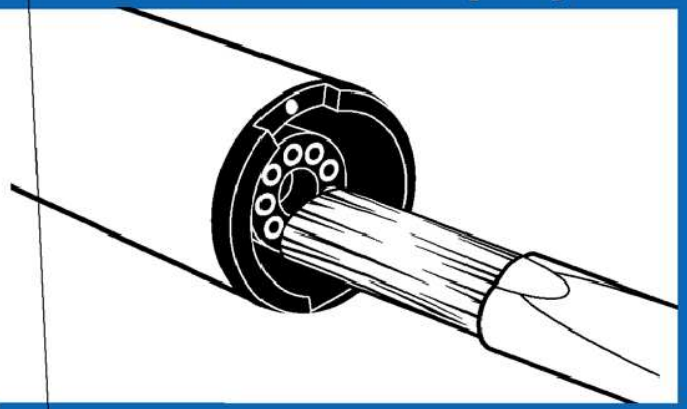
REF 5110-901-905

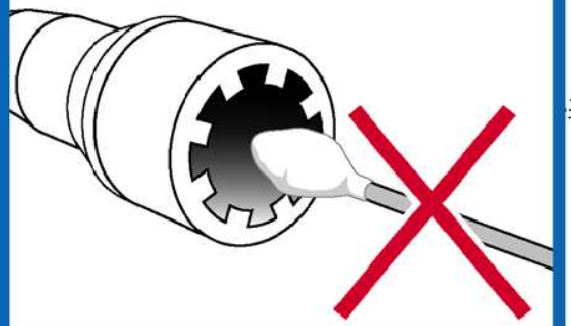
Connector Spray

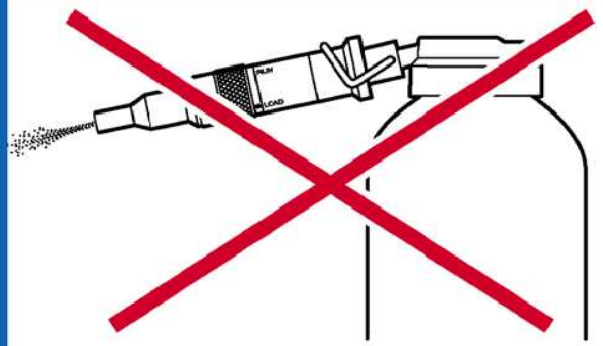


All Attachments

Micro Drill Attachments







Use the Connector Spray to clean connectors on back of the TPS Handpiece only. Thoroughly saturate area. Use brush to scrub and to remove contaminants in hard to reach areas. Use quick burst to rinse cleaned area. Dry with forced air or wipe with a lint free cloth.

CAUTION:

DO NOT use cotton swabs to clean any TPS handpiece or attacment.

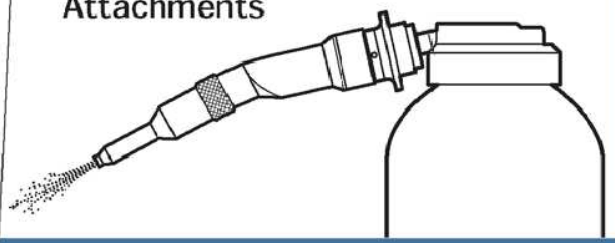
CAUTION:

DO NOT lubricate TPS MicroDrill Attachments with Stryker ContraClean™.

REF 5110-901-900

Stryker TPS Lubricant

For Universal/U2 Drill Attachments

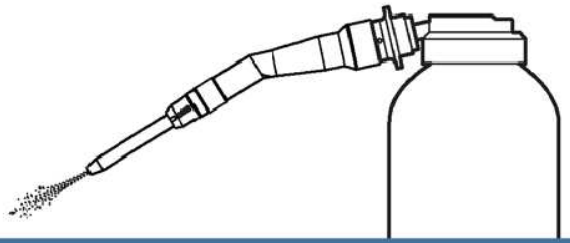


Before each sterilization, lubricate the Universal/U2 Drill Attachments with Stryker TPS Lubricant.

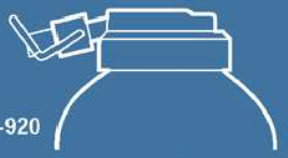
REF 5110-901-900

ContraClean™

For TPS Elite Attachments



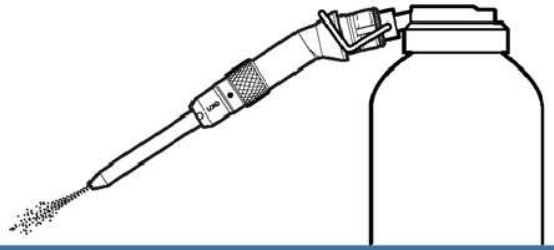
Lubricate TPS Elite Attachments with Stryker ContraClean every 2 months, or after every 40 sterilization cycles.



REF 5110-901-920

ContraClean™

For TPS Saber Attachments



Lubricate TPS Saber Attachments with Stryker ContraClean every 2 months, or after every 40 sterilization cycles.

WARNINGS:

Expect substantial pressure from the can when spray button is depressed.
If not secure, the pressure will forcefully eject the attachment from the head.

Never release the attachment from the can upon release of button.
Attachment must be kept in place until dispersant ceased to flow from the head.

Maintenance/ Sterilization

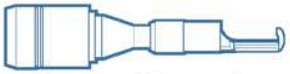
TPS Cutting Accessories

U2 Burs

5100-10, 5100-100

Attachment / Accessories Prefix

"O" 5100-10-20, 5100-10-22	5110-xxx-xxx
"M" 5100-10-50, 5100-10-52	5120-xxx-xxx, 5220-xxx-xxx
"AM" 5100-10-70, 5100-10-72	5130-xxx-xxx, 5230-xxx-xxx
"R" 5100-10-80	5160-xxx-xxx
Perforator (Hudson Adapter) 5100-10-60	5106-22-xxx Codman Acra-cut
Right Angle 5100-10-11	1651-xxx-xxx, 1351-xxx-xxx, 296-17-xxx
Sagittal Saw 5100-10-34	5100-134-xxx



Dura Guard (old)

5100-10-12, 212
5100-10-16, 216
5100-10-25, 225

5100-10-12, 5100-10-212	5110-71-18
5100-10-16, 5100-10-216	5110-71-22
5100-10-25, 5100-10-225	5110-71-30

Dura Guard (new)

"D" 47 5100-10-47, 5100-10-247	5120-71-47
"D" 48 5100-10-48, 5100-10-248	5120-71-48
"D" 49 5100-10-49, 5100-10-249	5120-71-49

Micro Burs

5100-15

Attachment / Accessories Prefix

4:1 5100-15-43	277-10-xxx, 1607-2-xxx, 1608-2-xxx, 1608-6-xxx, 5300-10-xxx
Straight 5100-015-250	277-10-xxx, 1607-2-xxx, 1608-2-xxx, 1608-6-xxx, 5300-10-xxx
Angled 5100-015-252	277-10-xxx, 1607-2-xxx, 1608-2-xxx, 1608-6-xxx, 5300-10-xxx
Long Straight 5100-015-270	277-10-xxx, 1607-2-xxx, 1608-2-xxx, 1608-6-xxx, 5300-10-xxx
Long Angled 5100-015-272	1608-9-xxx
Contra Head w/Reducer 260-901-21, 23, 24, 25, 26	1651-xxx-xxx, 1351-xxx-xxx, 296-17-xxx

Portmann Chuck 5100-15-44	1605-5-xxx, 1605-10-xxx, 1605-12-xxx
MIS 5100-15-48	5640-xxx-xxx

Quantum Drills

(5100-20 Straight or 5100-25 Angled)

277-140-xxx
277-143-xxx
5720-xxx-xxx

Attachment / Accessories Prefix

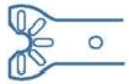
Portmann Chuck 5100-20-44	1605-5-xxx, 1605-10-xxx, 1605-12-xxx

Sagittal Saw Attachment 5100-10-34, 5100-10-334	5100-134-xxx

Reciprocating Saw

5100-37

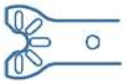
5100-137-xxx
5100-337-xxx
5100-37-xxx



Sagittal Saw

5100-34

2296-3-xxx
2296-33-xxx



Oscillating Saw

5100-31

2296-3-xxx
2296-33-xxx

Oscillating Saw Adapter 2296-3-400	2296-31-xxx

Elite Burs

5100-010-450, 5100-010-470
5100-010-480, 5100-010-490
5100-010-452, 5100-010-472,
5100-010-482

5820-010-0xx	5820-020-0xx
5820-010-1xx	5820-025-0xx
5820-010-2xx	5820-030-0xx
5820-010-3xx	5820-066-0xx
5820-010-4xx	5820-066-2xx
5820-012-0xx	5820-070-0xx
5820-012-3xx	5820-071-0xx
5820-013-0xx	5820-101-0xx
5820-013-1xx	5820-103-0xx
5820-013-3xx	5820-105-0xx
5820-015-0xx	5820-107-0xx
5820-016-0xx	5820-107-1xx
5820-017-0xx	5820-107-2xx
5820-018-0xx	5820-107-4xx

Saber Burs

5100-120-450, 5100-120-470
5100-120-480, 5100-120-490
5100-120-452, 5100-120-472,
5100-120-482

5620-010-0xx	5620-107-0xx
5620-010-1xx	5820-012-0xx
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5620-030-0xx	5820-013-1xx

Saber Portmann

5100-120-44, 5100-120-45

1605-5-xx
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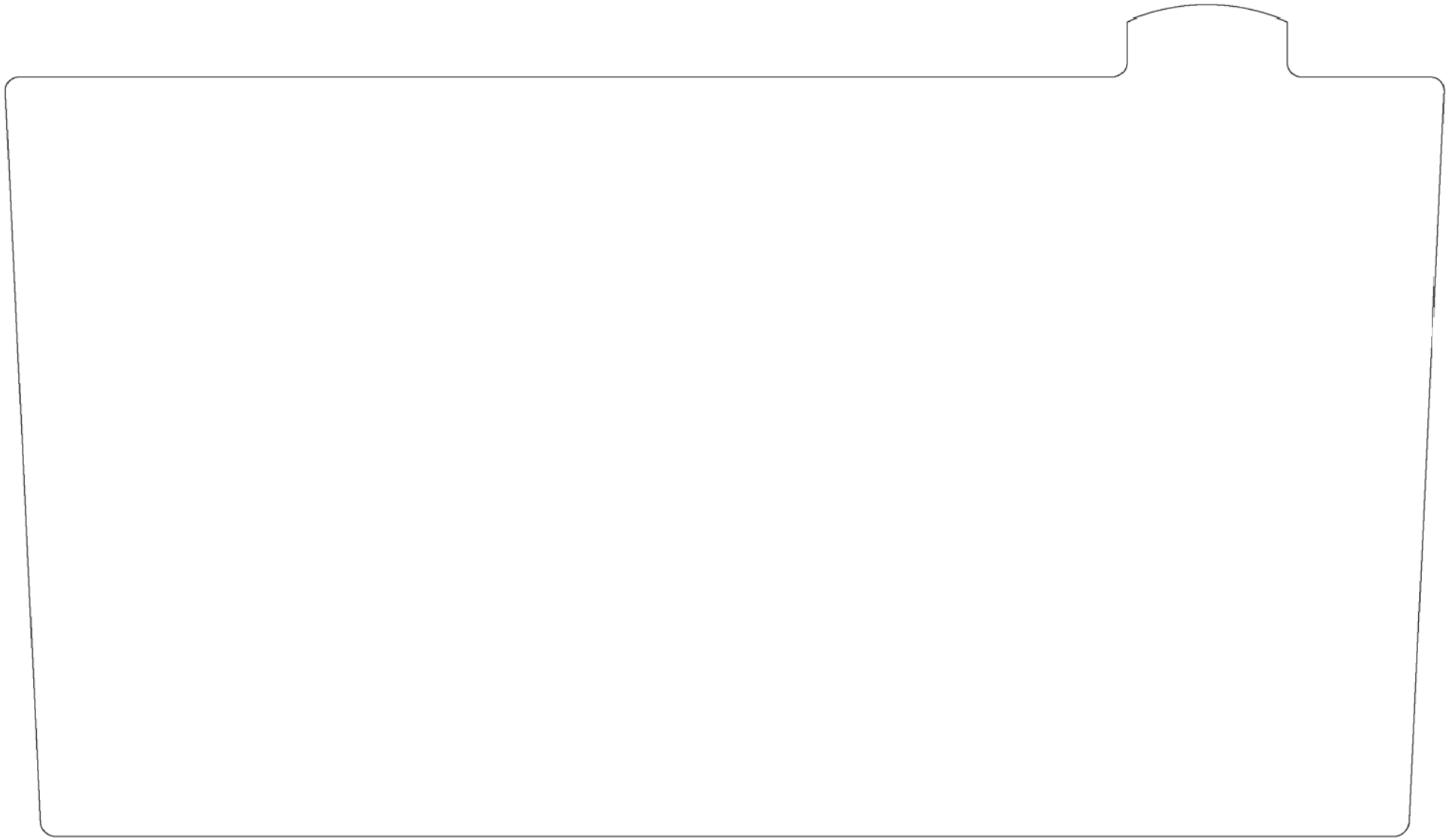

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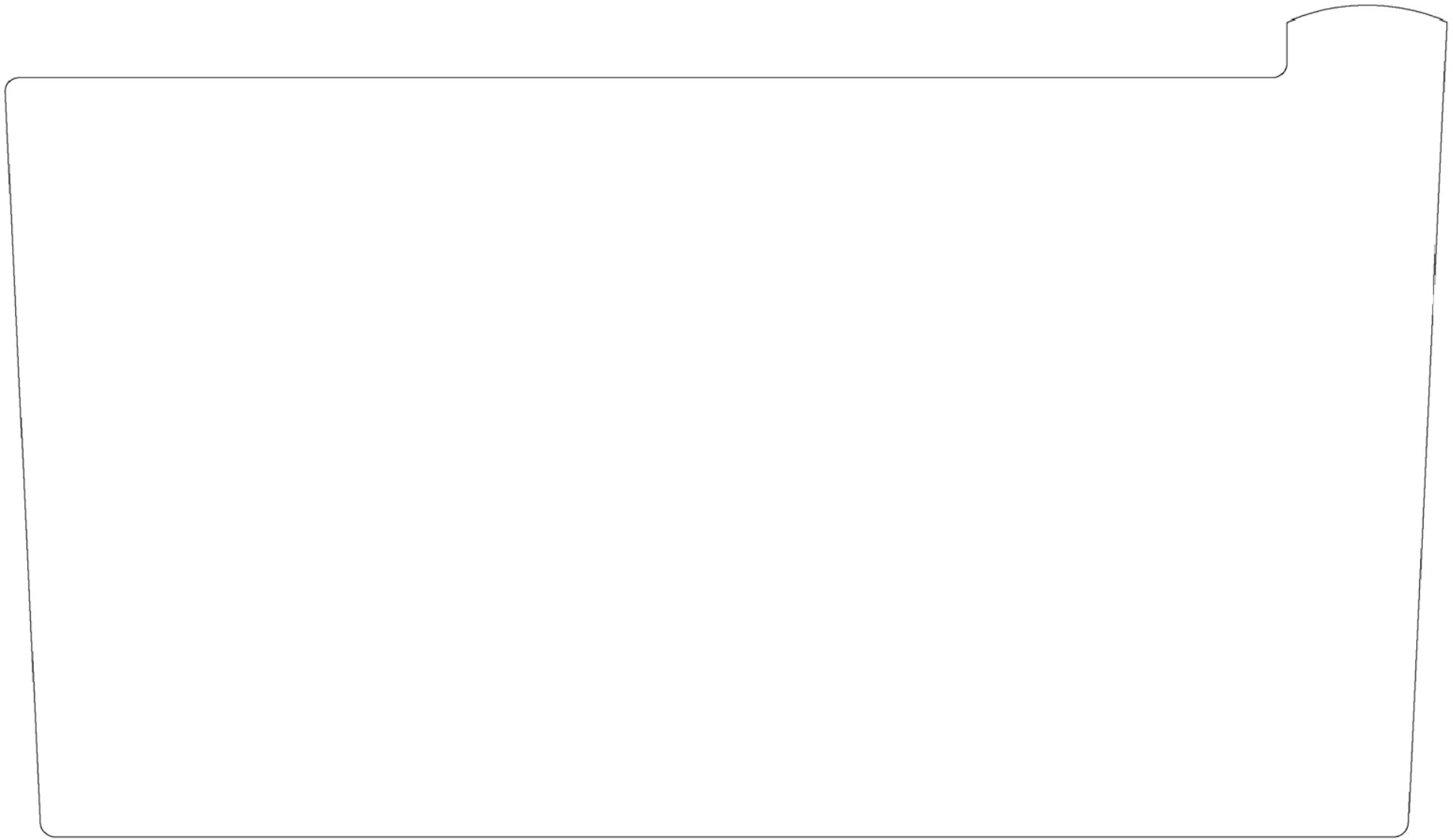

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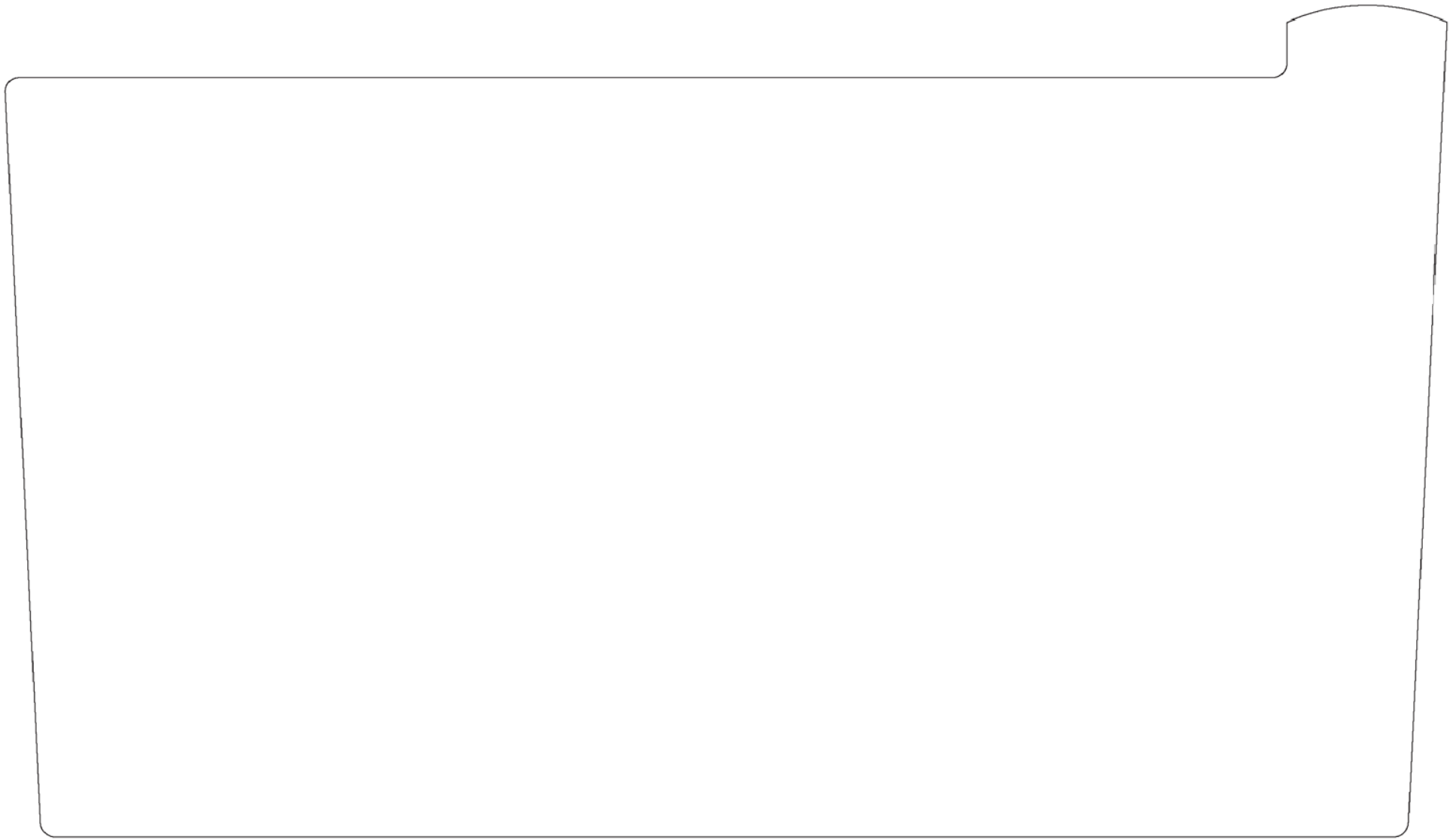

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